

INDEX TO VOLUME 93

Compiled by James J. Dinsmore

This index is primarily one to new information. Previously published information referred to in this volume has not been indexed unless extensive comparisons or reinterpretations are involved. For some species, especially ones not in the A.O.U. Check-list, scientific names only have been entered, and in some instances entries under scientific names are more extensive than those under vernacular names. New generic, specific, and subspecific names are printed in **boldface** type.

Note that page numbers followed by "A, B, C, or D" refer to supplements to the January, April, July, or October issues respectively.

- Abnormality of, *Hydroprogne caspia*, 437-438
Larus argentatus, 436-441
L. delawarensis, 436-438
Nycticorax nycticorax, 435, 437, 438
Sterna hirundo, 437-441
Accipiter bicolor, 841-842
poliogaster, 187-189
striatus, 492
Actitis macularia, 56
Aechmophorus occidentalis, 831
Aegolius acadicus, 603, 608-610
funereus, 195-196
Agelaius phoeniceus, 343-355, 361, 364, 517-534
Aimophila strigiceps, 189-190
Aix sponsa, 793-807
Alabama, 385
Alaska, 67, 69, 74-76, 263-280, 842-843, 843-845
Albatross, Black-fronted, 263-280
Laysan, 263-280
Short-tailed, 263-280
Alberta, 231-244
Aleutian Islands, 263-280, 1DD-19DD
Alison, R. M., Female ptarmigan reoccupying nest site, 657; and J. P. Prevett, Occurrences of duck hybrids at James Bay, 643-644
Amazilia yucatanensis, 56
Amazona ochrocephala, 56
viridigenalis, 55, 56, 61
American Ornithologists' Union, Awards, 142-143, 161-163
Business sessions, 142-149
Bylaws of, ICC-8CC
Charge to committee on public responsibilities, 157
Check-list, supplement to, 875-879
Committee on classification and nomenclature, 875-879
Committee on collections, 126-129
Committees, 155-157
Conservation, Report of the committee on, 1DD-19DD
Membership, 143-144
Officers, 142, 155
Proceedings of the ninety-third stated meeting, 142-163
Public sessions, 149-151
Resolutions, 153-155
Treasurer's report, 158-160
Ampelion sclateri, 426
Anas acuta, 643-644, 831
americana, 643-644, 831
clypeata, 831
crecca, 273, 831
cyanoptera, 831
discors, 646-650, 831
platyrhynchos, 273, 324-342, 643-644, 831
rubripes, 643-644
strepera, 831
Anatomy and embryology, recent literature on, 2A-3A, 2B, 2C, 2D-5D
Anatomy and morphology of, *Anas platyrhynchos*, 324-332
Aptenodytes forsteri, 749-759
A. patagonica, 749-759
bony stapes, 169-170

INDEX TO VOLUME 93

Compiled by James J. Dinsmore

This index is primarily one to new information. Previously published information referred to in this volume has not been indexed unless extensive comparisons or reinterpretations are involved. For some species, especially ones not in the A.O.U. Check-list, scientific names only have been entered, and in some instances entries under scientific names are more extensive than those under vernacular names. New generic, specific, and subspecific names are printed in **boldface** type.

Note that page numbers followed by "A, B, C, or D" refer to supplements to the January, April, July, or October issues respectively.

- Abnormality of, *Hydroprogne caspia*, 437-438
 - Larus argentatus*, 436-441
 - L. delawarensis*, 436-438
 - Nycticorax nycticorax*, 435, 437, 438
 - Sterna hirundo*, 437-441
- Accipiter bicolor*, 841-842
 - poliogaster*, 187-189
 - striatus*, 492
- Actitis macularia*, 56
- Aechmophorus occidentalis*, 831
- Aegolius acadicus*, 603, 608-610
 - funereus*, 195-196
- Agelaius phoeniceus*, 343-355, 361, 364, 517-534
- Aimophila strigiceps*, 189-190
- Aix sponsa*, 793-807
- Alabama, 385
- Alaska, 67, 69, 74-76, 263-280, 842-843, 843-845
- Albatross, Black-fronted, 263-280
 - Laysan, 263-280
 - Short-tailed, 263-280
- Alberta, 231-244
- Aleutian Islands, 263-280, 1DD-19DD
- Alison, R. M., Female ptarmigan reoccupying nest site, 657; and J. P. Prevett, Occurrences of duck hybrids at James Bay, 643-644
- Amazilia yucatanensis*, 56
- Amazona ochrocephala*, 56
 - viridigenalis*, 55, 56, 61
- American Ornithologists' Union, Awards, 142-143, 161-163
 - Business sessions, 142-149
- Bylaws of, ICC-8CC
- Charge to committee on public responsibilities, 157
- Check-list, supplement to, 875-879
- Committee on classification and nomenclature, 875-879
- Committee on collections, 126-129
- Committees, 155-157
- Conservation, Report of the committee on, 1DD-19DD
- Membership, 143-144
- Officers, 142, 155
- Proceedings of the ninety-third stated meeting, 142-163
- Public sessions, 149-151
- Resolutions, 153-155
- Treasurer's report, 158-160
- Ampelion sclateri*, 426
- Anas acuta*, 643-644, 831
 - americana*, 643-644, 831
 - clypeata*, 831
 - crecca*, 273, 831
 - cyanoptera*, 831
 - discors*, 646-650, 831
 - platyrhynchos*, 273, 324-342, 643-644, 831
 - rubripes*, 643-644
 - strepera*, 831
- Anatomy and embryology, recent literature on, 2A-3A, 2B, 2C, 2D-5D
- Anatomy and morphology of, *Anas platyrhynchos*, 324-332
 - Aptenodytes forsteri*, 749-759
 - A. patagonica*, 749-759
 - bony stapes, 169-170

- Eudypetes chrysolophus*, 749-759
E. crestatus, 749-759
E. pachyrhynchus, 749-759
E. schlegeli, 749-759
Eudypitula minor, 749-759
Megadyptes antipodes, 749-759
 middle ear region of penguins, 749-759
Pygoscelis adeliae, 749-759
P. papua, 749-759
Spheniscus demersus, 749-759
S. humboldti, 749-759
S. mendiculus, 749-759
 Angell, T., Owls (rev.), 658-659
 Anhinga, 56
Anhinga anhinga, 56
 Ani, Groove-billed, 56
Anisognathus igniventris, 426
 Annotated lists, see Distribution and —
 Annual cycle of, *Oxyura* sp., 561-562
Anous stolidus, 371-374, 626
Aphelocoma coerulescens, 116-125, 443-450
 ultramarina, 116-125
Aptenodytes forsteri, 749-759
 patagonica, 749-759
Aquila chrysaetos, 390, 832
Aratinga astec, 56
 holochlora, 56, 61
 Archibald, Herbert L., Spring drumming
 patterns of Ruffed Grouse, 808-829
Archilochus alexandri, 574, 582
Ardea herodias, 56, 86, 87, 90, 91, 391, 468-
 473, 831
 Arizona, 67, 72-76, 116-125, 220, 225, 245-
 262, 571-586, 836-837, 845
 Arkansas, 836
 Armstrong, Edward A., The life and lore
 of the bird/In nature, art, myth, and
 literature (rev.), 408
Arremonops rufivirgatus, 57
Asio flammeus, 603, 607, 609-610, 832
 otus, 603, 607, 609-610
Auriparus flaviceps, 245-262, 746
 Austin, Elizabeth S., reviews by, 202-203,
 206-209, 407, 661-662, 664, 869, 870
 Austin, George T., Behavioral adaptations
 of the Verdin to the desert, 245-262
 Avery, Michael, Paul F. Springer, and J.
 Frank Cassel, The effects of a tall
 tower on nocturnal bird migration—
 a portable ceilometer study, 281-291
Aythya affinis, 831
 americana, 831
 collaris, 831
 marila, 831
 valisineria, 831
 Balda, Russell P., see Laudenslayer, Jr.,
 William F., and —
 Balph, David F., see Balph, Martha Hatch,
 and —
 Balph, Martha Hatch, and David F. Balph,
 On flight pursuits in wintering Dark-
 eyed Juncos, 388-389
 Banks, Richard C., review by, 864-865;
 see Clench, Mary H., et al.
 Barlow, Jon C., see Clench, Mary H., et al.
 Barnes, John A. G., The titmice of the
 British Isles (rev.), 870
 Beaver, Donald L., Avian populations in
 herbicide treated brush fields, 543-553
 Becard, Rose-throated, 54, 56, 61
 Beehler, Bruce, see Duffy, David C., et al.
 Behavior,
 activity patterns, 231-244, 303-323
 age-related, 793-807
 aggressive, 171-172, 710-711, 720, 836-
 837, 842-843
 agonistic, 388-389
 body-bobbing, 374-375
 breeding, 443-450
 copulatory, 311-315, 717-718
 courtship, 311, 712-715, 720-722
 distraction, 173, 383
 dominance, 95-105
 drumming, 808-829
 effect of weather on, 231-244
 egg rejection, 498-509, 675-691
 feeding, 101-105
 feeding aggregations, 468-472
 flight, 554-559
 food begging, 173
 foraging, 16-23, 41-43, 195, 255-259,
 304-306, 316-317, 381-382, 391, 425-
 426, 468-472, 575-580, 640-642, 644,
 841-842
 hierarchical, 95-105
 incubation, 137-139, 626
 interspecific, 116-125, 183, 195, 295-299,
 383, 460-461, 836-837, 839-840
 intraspecific, 18-21

- laying, 137
 maintenance, 315-316
 mobbing, 116-125
 nest building, 136-137
 nest guarding, 292-300
 nest site tenacity, 657
 pair formation, 715-719, 722, 793-807
 panic flights, 630-632
 pursuit, 388-389
 recent literature on, 3A-5A, 2B-6B, 3C-8C, 5D-13D
 soaring, 387, 636
 social, 192-193
 social organization, 560-570
 sunbathing, 375-376
 territorial, 18-19, 21-22, 314-315, 485-489, 711-712, 719
 territory switching, 351-352
 vocal mimicry, 25-38
Behavior of, *Accipiter bicolor*, 842
Aix sponsa, 793-807
Anous stolidus, 626
Aphelocoma coerulescens, 116-125, 443-450
A. ultramarina, 116-125
Ardea herodias, 86, 87, 90, 91, 391, 468-472
Auriparus flaviceps, 255-259
Bombycilla cedrorum, 498-509, 675-691
Bonasa umbellus, 192-193, 808-829
Botaurus lentiginosus, 86, 87, 91
Branta canadensis, 554-559
Bubulcus ibis, 86, 90, 91
Butorides virescens, 86, 87, 90, 91
Carpodacus cassinii, 485-489
Casmerodius albus, 86, 88, 90, 91, 391, 468-472, 708-724
Chamaepetes goudotii, 194
Coturnix coturnix, 135-141
Cyanocitta cristata, 684-686
Dendrocygna autumnalis, 536
Dichromanassa rufescens, 86, 88, 90, 91
Dryocopus pileatus, 16-23
Dumetella carolinensis, 292-300, 683-687
Egretta thula, 86, 89, 90, 91, 391, 468-472
Eremophila alpestris, 383
Eudocimus albus, 468-472
Florida caerulea, 86, 90, 91, 195, 468-472
Gymnogyps californianus, 636
Haliaeetus leucocephalus, 387, 842-843
Harpagus bidentatus, 841
H. diodon, 841-842
Hirundo rustica, 177-178
Hydranassa tricolor, 86, 88, 90, 91, 195, 391, 468-472
Iridoprocne bicolor, 177-178
Ixobrychus exilis, 86, 91
Junco hyemalis, 388-389
Lagopus lagopus, 657
Larus atricilla, 308-323
L. occidentalis, 304-306
 migrating birds, 281-291
Myadestes genibarbis, 41-43
Mycteria americana, 468-472
Nephelornis oneilli, 425-426
Numenius americanus, 382-384
Nyctanassa violacea, 86, 91
Nyctea scandiaca, 839-840
Nycticorax nycticorax, 86, 90, 91, 468-472, 631
Oxyura jamaicensis, 560-570
O. maccoa, 560-570
Parus atricapillus, 95-105
P. gambeli, 575-580, 836
P. hudsonicus, 451-463
P. inornatus, 575-580
Pelecanus occidentalis, 305
Petrochelidon pyrrhonota, 177-178
Phalacrocorax auritus, 305
P. penicillatus, 305
Philohela minor, 374-375
Pipilo erythrophthalmus, 183
Plegadis chihi, 375-376
Progne subis, 231-244, 842
Psaltiriparus minimus, 575-580
Quiscalus quiscula, 640-642
Riparia riparia, 177-178
Rynchops niger, 170-174
Selenidera spectabilis, 381-382
Spizella arborea, 644
S. passerina, 575-580
Sterna albifrons, 761
S. hirundo, 630-632
Tachycineta thalassina, 836
Thryomanes bewickii, 183
Toxostoma rufum, 684-686
Turdus migratorius, 684-686
Tyrannus tyrannus, 684-686

- T. verticalis*, 684-686
Vireo solitarius, 575-580
 Behle, William H., Systematic review, intergradation, and clinal variation in Cliff Swallows, 66-77
 Berkeley, Philip, see Williams, Timothy C., et al.
 Berlioz, Jacques, obituary of, 665
 Bioenergetics of, *Larus atricilla*, 46-52
 Starling eggs and ovary, 184-187
 Bird collections, 126-129
 Bittern, American, 86, 87, 91, 831
 Least, 86, 91
 Blackbird, Red-winged, 343-355, 361, 364, 517-534
 Bluebird, Eastern, 361, 364, 708
 Western, 746
 Bock, Carl E., and Larry W. Lepthien, Population growth in the Cattle Egret, 164-166
 Bock, Walter, recipient of Elliott Coues Award, 162-163; editor of Reviews, 197-209, 393-408, 658-664, 855-870; reviews by, 658-661, 662-664, 855-856, 860-861, 868-869, 869-870
 Bolen, Eric G., see Delnicki, Don, and —
Bombicilla cedrorum, 57, 296, 498-509, 675-691, 708
Bonasa umbellus, 192-193, 361, 364, 708, 808-829
 Bond, James, review by, 206
 Borneman, John C., California Condors soaring into opaque clouds, 636
Botaurus lentiginosus, 86, 87, 91, 831
 Brant, Black, 273
Branta canadensis, 554-559, 831
 nigricans, 273
 Brazil, 841-842
 Breeding of (see also Behavior; Breeding season; Breeding success; Clutch size; Eggs, descriptions and measurements; Incubation and incubation period; Nest and nest site), *Agelaius phoeniceus*, 343-355
 Carpodacus cassinii, 477-497
 Coturnix coturnix, 135-141
 Dendrocygna autumnalis, 535-542
 Breeding season of, *Agelaius phoeniceus*, 344-345
Lagonosticta rara, 30
L. rubricata, 30
L. rufopicta, 29, 30
L. senegala, 30
Passer domesticus, 837
 Breeding success of, *Agelaius phoeniceus*, 349-350, 352-353
 birds exposed to gamma radiation, 627-629
Carpodacus cassinii, 488
Dendrocygna autumnalis, 540
 British Columbia, 67-69, 74-76, 220, 843-845
 British Honduras, 167
 Brown, Charles R., Use of gravel by Purple Martins, 842
 Brown, William Y., Growth and fledging age of Sooty Tern chicks, 179-183; Egg specific gravity and incubation in the Sooty Tern and Brown Noddy, 371-374; Brown Noddy incubation shifts, 626
 Browning, M. Ralph, The status of *Sayornis saya yukonensis* Bishop, 843-846
 Brudenell-Bruce, P. G. C., The birds of the Bahamas (rev.), 206
 Brush, Alan H., review by, 199-200; and Dennis M. Power, House Finch pigmentation: carotenoid metabolism and the effect of diet, 725-739
Bubo virginianus, 56, 116-125, 603, 605, 609-610, 832
Bubulcus ibis, 86, 90, 91, 164-166
Bucephala albeola, 831
 clangula, 831, 833-835
 Buchheister, Carl W., In memoriam: Alexander Sprunt, Jr., 130-134
 Buech, Richard R., Avian nesting success under gamma radiation exposure, 627-629
 Bufflehead, 831
 Bunting, Blue, 57
 Indigo, 296, 360, 361, 364
 Lazuli, 543-553
 Painted, 57
 Burger, Joanna, Daily and seasonal activity patterns in breeding Laughing Gulls, 308-323
 Burrows of, *Speotyto cunicularia*, 512
 Burton, J. A. (ed.), Owls of the world (rev.), 658-659
 Burton, P. J. K., Feeding and the feeding apparatus in waders (rev.), 658

- Bush-Tanager, Yellow-throated, 381
 Bushtit, 574-584
Buteo lineatus, 20, 56, 361, 362, 364, 708
 magnirostris, 56
 nitidus, 56, 650-655
 platypterus, 708
 swainsoni, 838
Buteogallus anthracinus, 56
Buthraupis aureodorialis, 426
Butorides virescens, 20, 86, 87, 90, 91
 Butts, Kenneth O., Burrowing Owl wintering in the Oklahoma Panhandle, 510-516

 Caccamise, Donald F., Nesting mortality in the Red-winged Blackbird, 517-534
Cairina moschata, 56
Calcarius pictus, 838-839
 California, 1-14, 67, 68, 74-76, 220-227, 301-307, 543-553, 636, 740-748, 760-773, 830-833, 845
Calliphlox evelynae, 837-838
 Calls, see Vocalizations
 Cameroon, 32, 34
Camptostoma imberbe, 57
 Cannibalism by, *Buteo swainsoni*, 838
 Canvasback, 831
Capella gallinago, 379-381
 Caracara, Crested, 56
 Cardinal, 296, 297, 361, 362, 364
Cardinalis cardinalis, 296, 297, 361, 362, 364
Carpodacus cassinii, 477-497
 mexicanus, 725-739
 purpureus, 708
Casmerodius albus, 86, 88, 90, 91, 195, 391, 468-471, 708-724
 Cassel, J. Frank, see Avery, Michael, et al.
Cassidix mexicanus, 57
 Catbird, Gray, 292-300, 360, 361, 364, 683-687, 708
Cathartes aura, 56, 708
Catharus fuscescens, 708
 guttatus, 57, 628, 708
 ustulatus, 296, 361, 364
 Central African Republic, 32
Centrocerus urophasianus, 832
Centurus aurifrons, 56
 carolinus, 361, 362, 364
Certhia familiaris, 708

Ceryle alcyon, 56
 torquata, 56
 Chachalaca, Chestnut-winged, 22
 Plain, 56, 376-379
 Chad, 32
Chaetura pelagica, 708
Chamaepetes goudotii, 194-195
Charadrius montanus, 166-167
 vociferus, 832
 Chat, Yellow-breasted, 57
Chen caerulescens, 391-392
 rossii, 391-392
 Chickadee, Black-capped, 95-105, 361, 362, 364, 644, 708
 Boreal, 451-463
 Carolina, 296
 Mountain, 574-584, 836-837
Chloroceryle americana, 56
Chlorophanes spiza, 381
Chlorospingus flavigularis, 381
Chlorura chlorura, 543-553
Chondrohierax uncinatus, 56
Chordeiles minor, 56
Ciccaba virgata, 56
Circus cyaneus, 832, 839-840
Ciridops anna, 774-792
Clangula hyemalis, 190-192
 Clench, Mary H., Richard C. Banks, and Jon C. Barlow, Bird collections in the United States and Canada: Addenda and corrigenda, 126-129; review by, 198-199
 Cleptoparasitism by, *Nyctea scandiaca*, 839-840
 Clutch size of, *Aegolius acadicus*, 603, 608-610
 Agelaius phoeniceus, 349, 518
 Asio flammeus, 603, 607, 609-610
 A. otus, 603, 607, 609-610
 Bubo virginianus, 603, 605, 609-610
 Catharus guttatus, 628
 Charadrius montanus, 166-167
 Colaptes auratus, 628
 Dendrocygna autumnalis, 539
 Molothrus ater, 628
 Myadestes genibarbis, 44
 Numenius americanus, 382
 Otus asio, 603-605, 609-610
 Seiurus aurocapillus, 628
 Speotyto cunicularia, 603, 606, 609-610

- Strix varia*, 603, 606, 609-610
Turdus migratorius, 628
Vireo olivaceus, 628
Coccyzus americanus, 361, 364, 708
erythrophthalmus, 361, 364, 708
Cody, Martin L., Competition and the structure of bird communities (rev.), 396-400
Colaptes auratus, 18, 360, 361, 364, 574, 582, 628, 708
Colombia, 194-195
Colorado, 67, 166-167, 220, 225, 740-748, 846-847
Coloration of, *Carpodacus mexicanus*, 725-739
Gavia immer, 384-387
Petrochelidon pyrrhonota, 66-72
Columba flavirostris, 56
livia, 175-176, 669-674
Columbina passerina, 56
Condon, H. T. (S. Marchant, ed.), Check-list of the birds of Australia. Part 1. Non-passerines (rev.), 403-404
Condor, California, 636
Conirostrum ferrugineiventris, 426
sitticolor, 426
Connecticut, 108, 109, 837
Conservation, see Management and —
Contopus virens, 361, 364, 695, 708
Coot, American, 832
Coragyps atratus, 56
Corapipo leucorrhoa, 381
Cormorant, Brandt's, 305
Double-crested, 273, 305, 831
Neotropic, 56
Pelagic, 273
Red-faced, 273
Corvus brachyrhynchos, 360, 361, 364, 383, 460, 708
corax, 273, 460, 832
cryptoleucus, 57
imparatus, 57
Costa Rica, 168
Cote d'Ivoire, 32
Coturnix coturnix, 135-141
Cowbird, Bronzed, 57
Brown-headed, 296-298, 389-390, 498-509, 628, 675-691, 708
Cracraft, Joel, review by, 856-860
Creep, Brown, 708
Crotophaga sulcirostris, 56
Crow, Common, 360, 361, 364, 383, 460, 708
Mexican, 57
Cruz, Alexander, Distribution, ecology, and breeding biology of the Rufous-throated Solitaire in Jamaica, 39-45
Cuckoo, Black-billed, 361, 364, 708
Yellow-billed, 361, 364, 708
Cully, Jr., Jack F., and J. David Ligon, Comparative mobbing behavior of Scrub and Mexican Jays, 116-125
Curlew, Long-billed, 382-384
Curry-Lindahl, Kai, Let them live/A worldwide survey of animals threatened with extinction (rev.), 207
Cyanocitta cristata, 296, 297, 361, 362, 364, 684-686, 708
Cyanocompsa parellina, 57
Cyanocorax yncas, 57
Davis, Thomas H., First record of Smith's Longspur in New York, 838-839
Deformity, see Abnormality
Delnicki, Don, and Eric G. Bolen, Renesting by the Black-bellied Whistling Duck, 535-542
Dendrocopos pubescens, 296, 361, 364, 708
scalaris, 56
villosus, 361, 362, 364, 708, 836
Dendrocygna autumnalis, 535-542
Dendroica caerulescens, 296, 708
castanea, 708
cerulea, 708
coronata, 57
dominica, 57, 708
fusca, 708
magnolia, 461
nigrescens, 574
pennsylvanica, 296, 361, 364, 381, 461, 698, 708
petechia, 296, 360, 361, 364, 543-553
striata, 708
tigrina, 167-169
virens, 57, 708
Description of, *Nephelornis oneilli*, 416-424
Desfayes, Michael, review by, 862-864
Dichromanassa rufescens, 86, 88, 90, 91
Dickcissel, 108-115

- Diglossa lafresnayii*, 426
 Dillon, David O., see Gehlbach, Frederick R., et al.
Diomedea albatrus, 263-280
 immutabilis, 263-280
 nigripes, 263-280
 Diseases and parasites, recent literature on, 5A-7A, 8C
 Distribution and annotated lists, recent literature on, 7A-8A, 6B-7B, 8C-10C
 Distribution of, *Accipiter poliogaster*, 187-189
Aegolius funereus, 195-196
Aimophila strigiceps, 189-190
Bubulcus ibis, 164-166
Buteo nitidus, 650-655
Calcarius pictus, 838-839
Calliphlox evelynae, 837-838
Capella gallinago, 379-380
Dendroica tigrina, 167-169
Diomedea albatrus, 265-267, 273-278
D. immutabilis, 263-265, 276-278
D. nigripes, 263-265, 276-278
Empidonax difficilis, 655-656
Eremophila alpestris, 108-115
Haliaeetus leucocephalus, 835-836
Histrionicus histrionicus, 846-847
Lagonosticta rufopicta, 31-32, 36
Larus belcheri, 176-177
Lophodytes cucullatus, 645-646
 Mexican tropical birds, 53-65
Muscivora forficata, 644-645
Myadestes genibarbis, 39-41
Nephelornis oneilli, 420-423
 New Jersey forest birds, 356-364
Oxyura sp., 560-561
Petrochelidon pyrrhonota, 66-70, 72-73
Sayornis saya, 843-844
Speotyto cunicularia, 510-516
Spiza americana, 108-115
Steganopus tricolor, 656-657
Thryomanes bewickii, 183-184
Vermivora ruficapilla, 219-230
V. virginiae, 219-230
Vidua funerea, 31-33
 Dixon, Keith L., review by, 201-202
 Dobbs, Austen (ed.), The birds of Nottinghamshire (rev.), 869
 Dolbeer, Richard A., Reproductive rate and temporal spacing of nesting of Red-winged Blackbirds in upland habitat, 343-355
 Dorst, Jean, The life of birds (rev.), 660
 Dove, Inca, 746
 Mourning, 360, 361, 364, 543-553, 574, 582, 708, 746
 Rock, 175-176, 669-674
 White-tipped, 56, 61
 White-winged, 56, 61
 Drepanididae, pelvic myology of, 774-792
 Drumming of, *Bonasa umbellus*, 808-829
Dryocopus lineatus, 56
 pileatus, 15-24, 708
Dubusia castaneiventris, 426
 Duck, Argentine Ruddy, 560-570
 Australian Blue-billed, 560-570
 Black, 643-644
 Black-bellied Whistling, 535-542
 Harlequin, 273, 846-847
 Maccoa, 560-570
 Ring-necked, 831
 Ruddy, 560-570, 831
 White-headed, 560-570
 Wood, 793-807
 Duffy, David C., Bruce Beehler, and William Haas, Snowy Owl steals prey from Marsh Hawk, 839-840
Dumetella carolinensis, 292-300, 360, 361, 364, 683-687, 708
 Eagle, Bald, 273, 387, 832, 835-836, 842-843
 Golden, 390, 832
 Eck, S., and H. Busse, Eulen (rev.), 658-659
 Ecology and population, recent literature on, 8A-11A, 7B-18B, 10C-13C, 13D-19D
 Ecology, competition, 836-837
 ecotone usage, 571-586
 effect of herbicide treatments on avian populations, 543-553
 feeding segregation, 636-640
 habitat partitioning, 575-584, 740-748
 habitat selection, 543-553, 575-584
 pesticide treated forest birds, 692-708
 Ecology of, *Falco sparverius*, 740-748
 forest island birds, 356-364
 Mexican tropical avifauna, 53-65
 Parus gambeli, 574-584

- P. inornatus*, 574-584
Psaltiriparus minimus, 574-584
Spizella passerina, 574-584
Vireo solitarius, 574-584
 Eggs, descriptions and measurements, *Anous stolidus*, 371-374
Larus atricilla, 46-52
Myadestes genibarbis, 44
Sterna fuscata, 371-374
Sturnus vulgaris, 185-186
 Eggs, specific gravity of, 371-374
 Egret, Cattle, 86, 90, 91, 164-166
 Great, 86, 88, 90, 91, 195, 391, 468-471, 708-724
 Reddish, 86, 88, 90, 91
 Snowy, 86, 89-91, 195, 391, 468-471
Egretta thula, 86, 89-91, 195, 391, 468-471
 Eider, Common, 273
 King, 273
 Eisenmann, Eugene, Thirty-third Supplement to the American Ornithologists' Union Check-list of North American birds, 875-879
 El Salvador, 168
 Embryology, see Anatomy and —
Empidonax difficilis, 655-656
 hammondi, 655
 minimus, 57, 655
 oberholseri, 543-553, 655
 traillii, 655
 England, 760-773
Eremophila alpestris, 108-115, 383
 Ethiopia, 32, 34
Eudocimus albus, 469-471
Eudryptes chrysolophus, 749-759
 crestatus, 749-759
 pachyrhynchus, 749-759
 schlegeli, 749-759
Eudryptula minor, 749-759
 Evolution and genetics, recent literature on, 11A, 18B-19B, 14C

Falco femoralis, 426
 peregrinus, 273
 sparverius, 740-748
 Falcon, Peregrine, 273
 Falconet, Spot-winged, 633-636
 Farner, Donald S., and James R. King (eds.), Avian biology, 5 vols. (rev.), 856-860
 Feathers, see Molts and plumages
 Feduccia, Alan, Morphology of the bony stapes in *Philepitta* and *Neodrepanis*: New evidence for suboscine affinities, 169-170; Osteological evidence for shorebird affinities of the flamingos, 587-601
 Finch, Cassin's, 477-497
 House, 725-739
 Purple, 708
 Finland, 636-640
 Finlay, J. Campbell, Some effects of weather on Purple Martin activity, 231-244
 Firefinch, Bar-breasted, 26-32, 34-36
 Flamingo, Greater, 429-433
 James, 429-433
 Lesser, 429-433
 Fledging success, *Agelaius phoeniceus*, 349-350, 352-353, 518
 Flicker, Common, 18, 360, 361, 364, 574, 582, 628, 708
 Flight formation of, *Branta canadensis*, 554-559
 Florida, 15-24, 46-52, 86-94, 113, 164, 165, 176-177, 385, 443-450, 464-476, 645-646, 708-724, 835-836, 837-838
Florida caerulea, 56, 86, 90, 91, 195, 468-472
 Flycatcher, Brown-crested, 57
 Dusky, 543-553, 655
 Great Crested, 361, 364, 708
 Hammond's, 655
 Least, 57, 655
 Scissor-tailed, 644-645
 Sulphur-bellied, 57, 61
 Western, 655-656
 Willow, 655
 Food and feeding habits of (see also Behavior, foraging)
Aquila chrysaetos, 390
Buteo swainsoni, 833
Chamaepetes goudotii, 194
Charadrius montanus, 166
Chlorura chlorura, 549
Dryocopus pileatus, 16-23
 Florida wading birds, 464-476
Harpagus diodon, 841
Junco hyemalis, 549
Larus occidentalis, 301-307
Myadestes genibarbis, 41-43

- Nephelornis oneilli**, 425
Numenius americanus, 383
Nyctea scandiaca, 839-840
Nycticorax nycticorax, 629-633
Ortalis vetula, 376-379
Passerella iliaca, 549-550
Quiscalus quiscula, 640-642
Selenidera spectabilis, 381-382
Speotyto cunicularia, 512-513
Spizella arborea, 644
S. breweri, 549
Sterna hirundo, 636-640
S. paradisaea, 636-640
Foraging, see Behavior, foraging; Food and feeding habits
Forest-Falcon, Barred, 842
Collared, 56
Forman, Richard T. T., see Galli, Anne E., et al.
Fossils of, Aleutian island birds, 271-277
Asio sp., 645-646
Diomedea albatrus, 273-276
D. immutabilis, 273, 276-277
D. nigripes, 273, 276-277
Lophodytes cucullatus, 645-646
Lower Klamath Basin, 830-833
Presbyornis pervetus, 587-601
Fowler, Janet H., see Lafontaine, A. Richard, and —
Franks, Edwin C., see Hurley, Robert J., and —
Franzreb, Kathleen E., Nest site competition between Mountain Chickadees and Violet-green Swallows, 836-837
Fredrickson, Leigh H., see Korschgen, Carl E., and —
Friedmann, Herbert, review by, 406-407
Fulica americana, 832
Fulmar, Northern, 266, 273
Fulmarus glacialis, 266, 273
Gadwall, 831
Galli, Anne E., Charles F. Leck, and Richard T. T. Forman, Avian distribution patterns in forest islands of different sizes in central New Jersey, 356-364
Gambia, 32
Ganier, Albert Franklin, obituary of, 210-211
Gavia immer, 273, 384-387, 831
stellata, 273
Gehlbach, Frederick R., David O. Dillon, Herschel L. Harrell, Stephen E. Kennedy, and Kay R. Wilson, Avifauna of the Rio Corona, Tamaulipas, Mexico: Northeastern limit of the tropics, 53-65
Gelochelidon nilotica, 171
General biology, recent literature on, 11A-15A, 19B-29B, 14C-19C, 19D-28D
Genetics, see Evolution and —
Georgia, 15-24, 836
Geothlypis trichas, 282, 708
Geranospiza caerulescens, 56
Ghana, 32
Gilbertson, Michael, Ralph D. Morris, and Rodger A. Hunter, Abnormal chicks and PCB residue levels in eggs of colonial birds on the lower Great Lakes (1971-73), 434-442
Glaucidium brasilianum, 56
gnoma, 226
Glutz von Blotzheim, U. N., K. M. Bauer, and E. Bessel, Handbuch der Vögel Mitteleuropas. Band 6, Charadriiformes (I. Teil) (rev.), 663
Gnatcatcher, Blue-gray, 57, 708
Goldeneye, Common, 831, 833-835
Goldfinch, American, 296
Goldman, Peter, An unusual foraging behavior of Tree Sparrows, 644
Goose, Canada, 554-559, 831
Emperor, 273
Ross', 391-392
Snow, 391-392
Grackle, Common, 360, 361, 364, 460, 640-642
Great-tailed, 57
Graul, Walter D., Food fluctuations and multiple clutches in the Mountain Plover, 166-167
Grayson, Donald K., A note on the prehistoric avifauna of the Lower Klamath Basin, 830-833
Grebe, Eared, 831
Horned, 831
Least, 56
Pied-billed, 831
Western, 831

- Green, Charlotte Hilton, Birds of the South/Permanent and winter birds (rev.), 209
- Greenwalt, Crawford H., The flight of birds: The significant dimensions, their departure from the requirements for dimensional similarity, and the effect on flight aerodynamics of the departure (rev.), 848-854
- Greenway, Jr., James C., Type specimens of birds in the American Museum of Natural History. Part 1. Tinamidae . . . Rallidae (rev.), 197-198; obituary of Jacques Berlioz, 665
- Grosbeak, Crimson-collared, 57
- Rose-breasted, 361, 364, 699, 708
- Ground-Dove, Common, 56
- Grouse, Ruffed, 192-193, 361, 364, 708, 808-829
- Sage, 832
- Growth and development, *Sterna fuscata*, 179-183
- Grubb, Teryl G., Nesting Bald Eagles attack researcher, 842-843
- Gruson, Edward S., Checklist of the world's birds (rev.), 868-869
- Guan, Sickle-winged, 194-195
- Guatemala, 167-168
- Gull, Band-tailed, 176-177
- Glaucous-winged, 273
- Herring, 434, 436-440, 631, 832
- Laughing, 46-52, 176, 308-323
- Ring-billed, 78-85, 434, 436-439, 631
- Western, 301-307
- Gullion, Gordon W., Reevaluation of "activity clustering" by male grouse, 192-193
- Gymnogyps californianus*, 636
- Gymnorhinus cyanocephalus*, 574
- Haas, William, see Duffy, David C., et al.
- Habitat of, *Bonasa umbellus*, 192-193
- Eremophila alpestris*, 108-115
- Myadestes genibarbis*, 41
- Nephelornis oneilli*, 424-425
- Spiza americana*, 108-115
- Vermivora ruficapilla*, 225-227
- V. virginiae*, 225-227
- Haematopus bachmani*, 273
- Haffer, Jürgen, recipient of Brewster Memorial Award, 161
- Haliaeetus leucocephalus*, 273, 387, 832, 835-836, 842-843
- Hall, B. P. (ed.), Birds of the Harold Hall Australian Expeditions. 1962-70. A report on the collections made for the British Museum (Natural History) (rev.), 203-206
- Harpagus bidentatus*, 841
- diodon*, 841-842
- Harrell, Herschel L., see Gehlbach, Frederick R., et al.
- Harrison, Hal H., A field guide to birds' nests in the United States east of the Mississippi River (rev.), 402-403
- Hatch, David R. M., and Angus H. Shortt, Possible intermediate Ross' Goose and Snow Goose in Manitoba, 391-392
- Hatching success of, *Agelaius phoeniceus*, 518
- Haverschmidt, F., The Common Snipe in Surinam, 379-381
- Hawaii, 179-183, 371-374, 626
- Hawk, Bay-winged, 56
- Bicolored, 841-842
- Broad-winged, 708
- Common Black, 56
- Crane, 56
- Gray, 56, 650-655
- Gray-bellied, 187-189
- Marsh, 832, 839-840
- Red-shouldered, 20, 56, 361, 362, 364, 708
- Roadside, 56
- Sharp-shinned, 492
- Swainson's, 838
- Helmitheros vermivorus*, 708
- Hemignathus procerus*, 774-792
- wilsoni*, 774-792
- Hemispingus rufosuperciliaris*, 426
- trifasciatus*, 426
- xanthophthalmus*, 426
- Hemithraupis guira*, 841
- Henny, Charles J., see Mosher, James A., and —
- Heron, Great Blue, 56, 86, 87, 90, 91, 391, 468-473, 831
- Green, 20, 86, 87, 90, 91

- Little Blue, 56, 86, 90, 91, 195, 468-472
Louisiana, 86, 88, 90, 91, 195, 391, 468-472
- Hickey, Joseph J., A guide to bird watching (rev.), 209
- Hilty, Steven, see Johnson, Terry B., and —
- Himatione sanguinea*, 774-792
- Hirundo rustica*, 177-178
- Histrionicus histrionicus*, 273, 846-847
- Homing of, *Zonotrichia atricapilla*, 1-14, *Z. leucophrys*, 1-14
- Honduras, 168
- Honeycreeper, Green, 381
pelvic myology of, 774-792
- Howell, David, and Ed Therooff, Scissor-tailed Flycatcher breeding in southwestern Indiana, 644-645
- Howell, J. C., obituary of Albert Franklin Ganier, 210-211
- Hudson, George Elford, Memorial, 365-370; see Johnson, Richard E., and —
- Hummingbird, Black-chinned, 574, 582
Broad-tailed, 574, 582
Fawn-breasted, 56
- Hunt, Jr., George L., and Molly W. Hunt, Exploitation of fluctuating food resources by Western Gulls, 301-307
- Hunt, Molly W., see Hunt, Jr., George L., and —
- Hunter, Rodger A., see Gilbertson, Michael, et al.; and Ralph D. Morris, Nocturnal predation by a Black-crowned Night Heron at a Common Tern colony, 629-633
- Hurley, Robert J., and Edwin C. Franks, Changes in the breeding ranges of two grassland birds, 108-115
- Huxley, Sir Julian Sorrell, obituary of, 211-212
- Hybrids and hybridization, *Anas americana* \times *A. acuta*, 643-644
Anas platyrhynchos \times *A. acuta*, 643-644
Anas platyrhynchos \times *A. rubripes*, 643-644
Anas rubripes \times *A. acuta*, 643-644
Chen rossii \times *C. caerulescens*, 391-392
- Hydranassa tricolor*, 86, 88, 90, 91, 195, 391, 468-472
- Hydroprogne caspia*, 434, 437-438
- Hyllocichla mustelina*, 361, 364, 699, 708
- Hypochera lorenzi*, 35-36
- Ibis, White, 469-471
White-faced, 375-376
- Icterus cucullatus*, 57, 61
galbula, 360, 361, 364, 708
graduacauda, 57
gularis, 54, 57, 61
virens, 57
- Idaho, 68, 71, 76, 220-224, 227, 845
- Illinois, 108, 111
- Incubation and incubation period of, *Anous stolidus*, 626
Bucephala clangula, 833-835
Coturnix coturnix, 137-139
- Indiana, 110, 111, 113, 644-645
- Indigobird, Variable, 27-37
Village, 25, 37
- Iowa, 108, 111
- Iridoprocne bicolor*, 177-178
- Iridosornis jelskii*, 426
- Ixobrychus exilis*, 86, 91
- Jackson, C. E., Bird illustrators/Some artists in early lithography (rev.), 208
- Jackson, Jerome A., Countershading on the feet and legs of the Common Loon, 384-387
- Jamaica, 39-45
- Jay, Blue, 296, 297, 361, 362, 364, 684-686, 708
Brown, 55, 57
Gray, 460
Green, 57
Mexican, 116-125
Piñon, 574
Scrub, 116-125, 443-450
- Jehl, Jr., J. R., review by, 866-868
- Jenkinson, Marion Anne, and Merlin D. Tuttle, *Accipiter poliogaster* from Peru, and remarks on two collecting localities named "Sarayacu," 187-189
- Johnson, Ned K., Breeding distribution

- of Nashville and Virginia's Warblers, 219-230
- Johnson, Richard E., and George E. Hudson, A Washington record of the Boreal Owl, 195-196
- Johnson, Terry B., and Steven Hilty, Notes on the Sickle-winged Guan in Colombia, 194-195
- Johnston, Richard F., recipient of Elliott Coues Award, 162; Annual review of ecology and systematics (rev.), 659
- Junco hyemalis*, 388-389, 543-553, 644
- Junco*, Dark-eyed, 388-389, 644
- Oregon, 543-553
- Kale, II, Herbert W., editor of Recent Literature, 1A-20A, 1B-38B, 1C-24C, 1D-39D
- Kansas, 108, 113
- Karalus, K. E., and A. W. Eckert, The owls of North America (rev.), 658-659
- Kaufmann, John, and Heinz Meng, Falcons return (rev.), 209
- Kear, Janet, and Nicole Duplaix-Hall (eds.), *Flamingos* (rev.), 207-208
- Keith, Stuart, review by, 400-401
- Kennedy, Stephen E., see Gehlbach, Frederick R., et al.
- Kentucky, 108, 110
- Kenya, 32
- Kestrel, American, 740-748
- Kilham, Lawrence, Winter foraging and associated behavior of Pileated Woodpeckers in Georgia and Florida, 15-24
- Killdeer, 832
- King, Ben F., and Edward C. Dickinson, A field guide to the birds of South-East Asia (rev.), 862-864
- King, James R., In memoriam: George Elford Hudson, 365-370; S. A. Mahoney, C. S. Maxwell, and L. R. Mewaldt, Additional records of Mountain White-crowned Sparrows parasitized by the Brown-headed Cowbird, 389-390
- King, Warren B., Report of the A. O. U. Committee on Conservation, 1DD-19DD
- Kingbird, Eastern, 361, 364, 684-686
- Tropical, 57
- Western, 684-686
- Kingfisher, Belted, 56
- Green, 56
- Ringed, 56
- Kinglet, Ruby-crowned, 57, 460
- Kiskadee, Great, 57
- Kite, Double-toothed, 841
- Hook-billed, 56
- Rufous-thighed, 841-842
- Kittiwake, Black-legged, 273
- Klonowski, Thomas J., see Williams, Timothy C., et al.
- Korschgen, Carl E., and Leigh H. Fredrickson, Comparative displays of yearling and adult male Wood Ducks, 793-807
- Kraus, George F., see Meservey, W. Roger, and —
- Kushlan, James A., Feeding behavior of North American herons, 86-94; Wading bird predation in a seasonally fluctuating pond, 464-476
- Lafontaine, A. Richard, and Janet H. Fowler, Golden Eagle preys on Osprey, 390
- Lagonosticta larvata*, 28, 34, 36
- rara*, 28, 30, 31, 34-36
- rhodopareia*, 37
- rubricata*, 29-31, 34-36
- rufopicta*, 26-32, 34-36
- senegala*, 25, 29, 30, 37
- Lagopus lagopus*, 657
- Lake Michigan, 190-192
- Lark, Horned, 108-115, 383
- Larus argentatus*, 434, 436-440, 631, 832
- atricilla*, 46-52, 176, 308-323
- belcheri*, 176-177
- delawarensis*, 78-85, 434, 436-439, 631
- glaucescens*, 273
- occidentalis*, 301-307
- Laudenslayer, Jr., William F., and Russell P. Balda, Breeding bird use of a pinyon-juniper-ponderosa pine ecotone, 571-586

- Lawrence, John M., see Schreiber, Ralph W., and —
- Leck, Charles, The birds of New Jersey. Their habits and habitats (rev.), 663-664; see Galli, Anne E., et al.
- Lemmetyinen, Risto, Feeding segregation in the Arctic and Common Terns in southern Finland, 636-640
- Lepthien, Larry W., see Bock, Carl E., and —
- Leptotila verreauxi*, 56, 61
- Ligon, J. David, see Cully, Jr., Jack F., and —
- Lockley, R. M., Ocean wanderers/the migratory seabirds of the world (rev.), 401-402
- Lockner, F. Russell, and Orlan M. Youngren, Functional syringeal anatomy of the Mallard. I. *In situ* electromyograms during ESB elicited calling, 324-342
- Lonchura striata*, 35
- Longspur, Smith's, 838-839
- Loon, Common, 273, 384-387, 831
Red-throated, 273
- Lophodytes cucullatus*, 645-646, 831, 834
- Louisiana, 164, 165, 195, 375-376, 708-724
- Lowery, Jr., George H., and Dan A. Tallman, A new genus and species of nine-primaried oscine of uncertain affinities from Peru, 415-428
- Loxops maculata*, 774-792
virens, 774-792
- Lumsden, Harry G., and Robert Wenting, Common Goldeneye hatching from cracked eggs, 833-835
- Lunda cirrhata*, 273
- Maher, W. J., see Sadler, Douglas, A. R., and —
- Mahoney, S. A., see King, J. R., et al.
- Mallard, 273, 324-342, 643-644, 831
- Management and conservation, recent literature on, 15A-16A, 29B-31B, 19C
- Manakin, White-ruffed, 381
- Manitoba, 67, 69, 74, 75, 391-392, 646-650, 657, 675-691
- Manning, T. H., see Morrison, R. I. G., and —
- Marion, Wayne R., Plain Chachalaca food habits in south Texas, 376-379
- Martin, Purple, 231-244, 842
- Maryland, 108, 112
- Mason, C. Russell, Cape May Warblers in Middle America, 167-169
- Massachusetts, 108, 109, 114, 177-178, 390, 640-642, 839-840
- Massey, Barbara W., Vocal differences between American Least Terns and the European Little Tern, 760-773
- Maxwell, C. S., see King, J. R., et al.
- McLaren, Margaret A., Vocalizations of the Boreal Chickadee, 451-463
- McNabb, F. M. Anne, and Roger A. McNabb, The effects of water restriction on renal mucoid materials in *Columba livia*, 175-176
- McNabb, Roger A., see McNabb, F. M. Anne, and —
- McNicholl, Martin K., Manitoba bird studies/A bibliography of Manitoba ornithology (rev.), 206-207
- Meadowlark, Eastern, 708
- Measurements, see Weights and —
- Megadyptes antipodes*, 749-759
- Meleagris gallopavo*, 56
- Melospiza lincolni*, 57
melodia, 296, 298, 360, 361, 364
- Memoriam (see also Obituary), Hudson, George Elford, 365-370
- Sprunt, Jr., Alexander, 130-134
- Vaurie, Charles, 620-625
- Merganser, Common, 273, 831
- Hooded, 645-646, 831, 834
- Red-breasted, 831
- Mergus merganser*, 273, 831
serrator, 831
- Meservey, W. Roger, and George F. Kraus, Absence of "individual distance" in three swallow species, 177-178
- Metabolism of, *Carpodacus mexicanus*, 725-739
- Otus asio*, 614-619
- Mewaldt, L. R., see King, J. R., et al.; see Ralph, C. John, and —
- Mexico, 53-65, 67, 72-74, 76, 167, 740-748, 843-845

- Michigan, 78-85, 108, 110, 111, 437-438, 498-509, 675-691, 835-836
- Micrastur ruficollis*, 842
- semitorquatus*, 56
- Migration and orientation, recent literature on, 16A-17A, 31B-32B, 19C-21C, 28D-34D
- Migration of, *Chamaepetes goudotii*, 194-195
- effects of tall tower on, 281-291
- Larus delawarensis*, 78-85
- Speotyto cunicularia*, 513-515
- Mills, G. Scott, American Kestrel sex ratios and habitat separation, 740-748
- Minnesota, 108, 192-193, 808-829
- Missouri, 108, 111, 644, 793-807
- Mniotilta varia*, 57, 361, 362, 364, 708
- Molothrus ater*, 296-298, 384-390, 498-509, 628, 675-691, 708
- Molt and plumage of, *Anas discors*, 646-650
- Clangula hyemalis*, 190-192
- thermal adaptiveness of plumage color in *Otus asio*, 614-619
- Momotus momota*, 56
- Montana, 220, 222, 223
- Morony, John J., review by, 393-396
- Morris, Ralph D., see Gilbertson, Michael, et al.; see Hunter, Rodger A., and —
- Morrison, R. I. G., and T. H. Manning, First breeding record of Wilson's Phalarope for James Bay, Ontario, 656-657
- Mortality of, *Agelaius phoeniceus*, 517-534
- Moseley, Lynn J., see Sears, Harold F., et al.
- Mosher, James A., and Charles J. Henny, Thermal adaptiveness of plumage color in Screech Owls, 614-619
- Motmot, Blue-crowned, 56
- Moulding, Jonathan D., Effects of a low-persistence insecticide on forest bird populations, 692-708
- Mueller, Helmut C., see Sears, Harold F., et al.
- Murray, Gale A., Geographic variation in the clutch sizes of seven owl species, 602-613
- Murre, Common, 273
- Thick-billed, 273
- Muscivora forficata*, 644-645
- Muscovy, 56
- Muscular activity, 332-335
- Museums, 126-129
- Myadestes genibarbis*, 39-45
- Mycteria americana*, 469-471, 473
- Myiarchus crinitus*, 361, 364, 708
- tyrannulus*, 57
- Myiodynastes luteiventris*, 57, 61
- Myology of, *Anas platyrhynchos*, 328-332
- Ciridops anna*, 774-792
- Hemignathus procerus*, 774-792
- H. wilsoni*, 774-792
- Himatione sanguinea*, 774-792
- Loxops maculata*, 774-792
- L. virens*, 774-792
- Nephelornis oneilli**, 417-419
- Palmeria dolei*, 774-792
- Phoeniconaias minor*, 429-433
- Phoenicoparrus jamesi*, 429-433
- Phoenicopterus ruber*, 429-433
- Psittirostra cantans*, 774-792
- P. psittacea*, 774-792
- Vestaria coccinea*, 774-792
- Nebraska, 108
- Nelson, Colleen Helgeson, see Parkes, Kenneth C., and —
- Nemosia pileata*, 841
- Neodrepanis* sp., 169-170
- Nephelornis oneilli**, 415-428
- Nest and nest site of, *Agelaius phoeniceus*, 524-525
- Auriparus flaviceps*, 247-255
- Buteo swainsoni*, 838
- Carpodacus cassinii*, 488-489
- Casmerodius albus*, 712
- Dendrocygna autumnalis*, 536-537
- Lagopus lagopus*, 657
- Myadestes genibarbis*, 43-44
- Parus gambeli*, 836-837
- Tachycineta thalassina*, 836-837
- Thryomanes bewickii*, 183-184
- Nest parasitism, 35-37, 298, 389-390, 498-509, 675-691

- Nest temperature, *Auriparus flaviceps*, 252-255
- Nethersole-Thompson, Desmond, Pine Crossbills (rev.), 408
- Nevada, 68, 220-222, 224-226, 245-262
- New Brunswick, 675-691
- New Jersey, 109, 308-323, 356-364, 374-375, 391, 517-534, 692-708
- New Mexico, 67, 73-76, 116-125, 220, 225, 650-655, 740-748, 838
- New York, 108, 109, 112-114, 178-179, 183-184, 434-442, 554-559, 838-839
- Nicaragua, 168
- Nigeria, 26-29, 31, 32, 34-36
- Nighthawk, Common, 56
- Night-Heron, Black-crowned, 86, 90, 91, 434, 435, 437, 438, 468-472, 629-633, 831
- Yellow-crowned, 86, 91
- Noddy, Brown, 371-374, 626
- Nomenclature, supplement to A. O. U. Check-list, 875-879
- Norelli, Martina R., American wildlife painting (rev.), 661-662
- North Carolina, 170-174
- North Dakota, 108, 281-291, 646-647
- Northwest Territories, 69
- Numenius americanus*, 382-384
- Nuthatch, Red-breasted, 708
- White-breasted, 296, 361, 362, 364, 708
- Nyctanassa violacea*, 86, 91
- Nyctea scandiaca*, 832, 839-840
- Nycticorax nycticorax*, 86, 90, 91, 434, 435, 437, 438, 468-472, 629-633, 831
- Nyctidromus albigollis*, 56
- Oberholser, Harry C., The bird life of Texas (rev.), 393-396
- Obituary of (see also Memoriam), Berlioz, Jacques, 665
- Ganier, Albert Franklin, 210-211
- Huxley, Sir Julian Sorrell, 211-212
- Storer, Tracy Irwin, 212
- Ochthoeca fumicolor*, 426
- Ohio, 110, 113, 292-300, 343-355
- Oklahoma, 108, 510-516, 655-656
- Oldsquaw, 190-192
- Olor buccinator*, 831
- columbianus*, 831
- Olson, Clark S., Band-tailed Gull photographed in Florida, 176-177
- Olson, Storrs N., The affinities of the falconid genus *Spizziapteryx*, 633-636; Collected papers in avian paleontology honoring the 90th birthday of Alexander Wetmore (rev.), 855-856
- O'Neill, John P., review by, 404-406
- Ontario, 108, 111, 434-442, 451-463, 629-633, 643-644, 656-657, 833-835
- Oporornis philadelphia*, 296
- Orcutt, Adrienne B., see Orcutt, Jr., F. Scott, and —
- Orcutt, Jr., F. Scott, and Adrienne B. Orcutt, Nesting and parental behavior in domestic Common Quail, 135-141
- Oregon, 67-70, 74-76, 220, 224, 389-390
- Oreortyx pictus*, 543-553
- Orientation (see also Migration and —)
- Columba livia*, 669-674
- Larus delawarensis*, 78-85
- Oring, Lewis W., review by, 861-862
- Oriole, Black-headed, 57
- Black-throated, 54, 57, 61
- Hooded, 57, 61
- Northern, 360, 361, 364, 708
- Orr, Robert T., obituary of Tracy Irwin Storer, 212
- Ortalis garrula*, 22
- vetula*, 56, 376-379
- Osprey, 390
- Osteology of, *Diomedea albatrus*, 267-271
- D. immutabilis*, 267-271
- D. nigripes*, 267-271
- Presbyornis pervetus*, 587-601
- Otus asio*, 603-605, 609-610, 614-619
- Ovary, weights and measurements, *Sturnus vulgaris*, 184-187
- Ovenbird, 296, 361, 362, 364, 628, 695, 708
- Owl, Barred, 603, 606, 609-610
- Boreal, 195-196
- Burrowing, 510-516, 603, 606, 609-610
- Great Horned, 56, 116-125, 603, 605, 609-610, 832
- Long-eared, 603, 607, 609-610
- Mottled, 56
- Pygmy, 226
- Saw-whet, 603, 608-610

- Screech, 603-605, 609-610, 614-619
 Short-eared, 603, 607, 609-610, 832
 Snowy, 832, 839-840
 Owre, Oscar T., Bahama Woodstar in
 Florida: first specimen for continen-
 tal North America, 837-838
Oxyura australis, 560-570
 jamaicensis, 560-570, 831
 leucocephala, 560-570
 maccoa, 560-570
 vittata, 560-570
 Oystercatcher, Black, 273
- Paleontology, see Fossils
Palmeria dolei, 774-792
 Panama, 168
Pandion haliaetus, 390
Parabuteo unicinctus, 56
 Paraguay, 189-190
 Parakeet, Green, 56, 61
 Olive-throated, 56
 Parasites, see Diseases and —
 Parasitism, see Cleptoparasitism; Nest
 Parasitism
 Pardusco, 415-428
 Parkes, Kenneth C., and Colleen Helge-
 son Nelson, A definite Colorado
 breeding record for the Harlequin
 Duck, 846-847
 Parrot, Red-crowned, 55, 56, 61
 Yellow-headed, 56
Parula americana, 57
 pitiayuma, 57, 381
Parula, Northern, 57
 Tropical, 57, 381
Parus atricapillus, 95-105, 361, 362, 364,
 644, 708
 atricristatus, 57
 bicolor, 296, 361, 364, 708
 carolinensis, 296
 gambeli, 574-584, 836-837
 hudsonicus, 451-463
 inornatus, 574-584
Passer domesticus, 241, 296, 361, 364, 746,
 837
Passerculus sandwichensis, 282
Passerella iliaca, 543-553
Passerina amoena, 543-553
 ciris, 57
 cyanea, 296, 360, 361, 364
- Pauraque, 56
 Payne, Robert B., Song mimicry and spe-
 cies relationships among the West
 African pale-winged indigobirds, 25-
 38
 Peaker, M., and J. L. Linzell, Salt glands
 in birds and reptiles (rev.), 662-663
Pelecanus erythrorhynchos, 831
 occidentalis, 305
 Pelican, Brown, 305
 White, 831
 Pelzl, Henry W., review by, 402-403
 Penguins, anatomy of the middle ear
 region, 749-759
 Pennsylvania, 108, 109, 114, 184-187
 Penny, Malcolm, The birds of Seychelles
 and the outlying islands (rev.), 400-
 401
Perisoreus canadensis, 460
 Perry, Richard, Watching sea birds (rev.),
 664
 Peru, 187-189, 415-428
 Pesticides and pollution, recent literature
 on, 18A-19A, 33B-36B
 Pesticides (see also Pollutants), effects
 on forest bird populations, 692-708
 Peterson, Steven R., Variation in Old-
 squaw rectrix numbers, 190-192
Petrochelidon pyrrhonota, 66-77, 177-178
 Pettingill, Jr., Olin Sewall, Another pen-
 guin summer (rev.), 407
 Pewee, Eastern Wood, 361, 364, 695, 708
Phalacrocorax auritus, 273, 305, 831
 olivaceus, 56
 pelagicus, 273
 penicillatus, 305
 urile, 273
 Phalarope, Wilson's, 656-657
Phasianus colchicus, 361, 364
 Pheasant, Ring-necked, 361, 364
Pheucticus ludovicianus, 361, 364, 699,
 708
Philacte canagica, 273
Philepitta castanea, 169-170
 Phillips, Allan R., review by, 197-198
Philohela minor, 361, 364, 374-375
 Phoebe, Eastern, 57, 361, 364, 708
 Say's, 843-846
Phoeniconaias minor, 429-433
Phoenicoparrus jamesi, 429-433

- Phoenicopiterus ruber*, 429-433
 Physiology, recent literature on, 19A-20A, 36B-37B, 22C-24C, 34D-39D
 Physiology, renal, *Columba livia*, 175-176
Piculus aeruginosus, 56
 Pigeon, Red-billed, 56
 Pigmentation of, *Carpodacus mexicanus*, 725-739
 Pigmy-Owl, Ferruginous, 56
 Pilz, Wayne R., Possible cannibalism in Swainson's Hawk, 838
 Pintail, 643-644, 831
Pipilo erythrophthalmus, 183, 360, 361, 364, 694, 708
Piranga ludoviciana, 57
 olivacea, 361, 364, 695, 708
 rubra, 57
Pitangus sulphuratus, 57
Platypsaris aglaiae, 54, 56, 61
Plegadis chihi, 375-376
 Plover, Mountain, 166-167
 Plumage mimicry by, *Harpagus diodon*, 841-842
 Plumages, see Molts and —
Podiceps auritus, 831
 dominicus, 56
 nigricollis, 831
Podilymbus podiceps, 831
Poliophtila caerulea, 57, 708
 Pollutants in, *Hydroprogne caspia*, 437-438
 Larus argentatus, 436-440
 L. delawarensis, 436-439
 Nycticorax nycticorax, 435, 437, 438
 Sterna hirundo, 437-441
 Pollution, see Pesticides and —
Polyborus plancus, 56
 Polygyny by, *Aphelocoma coerulescens*, 443-450
 Population (see also Ecology and —),
 Bubulcus ibis, 164-166
 Carpodacus cassinii, 479-482
 Chlorura chlorura, 546
 Dendroica petechia, 546, 548
 Empidonax oberholseri, 546, 548
 Junco hyemalis, 546, 548
 Oreortyx pictus, 546, 548
 Parus gambeli, 574-575
 P. inornatus, 574-575
 Passerella iliaca, 546, 548
 Passerina amoena, 546, 548
 pesticide-treated forest birds, 692-708
 Psaltiriparus minimus, 574-575
 Speotyto cunicularia, 511
 Spizella breweri, 546, 548
 S. passerina, 574-575
 Vireo solitarius, 574-575
 Zenaida macroura, 546, 548
Porzana carolina, 282
 Postupalsky, Sergej, Banded northern Bald Eagles in Florida and other southern states, 835-836
 Power, Dennis M., see Brush, Alan H., and —
 Pratt, H. Douglass, review by, 404-406
 Predation by, *Accipiter striatus*, 492
 Aquila chrysaetos, 390
 Falco sparverius, 746
 Florida wading birds, 464-476
 Numenius americanus, 383
 Nycticorax nycticorax, 629-633
 Predation on, *Agelaius phoeniceus*, 525-532
 Auriparus flaviceps, 746
 Carpodacus cassinii, 492
 Eremophila alpestris, 383
 Pandion haliaetus, 390
 Passer domesticus, 746
 Scardafella inca, 746
 Sialia mexicana, 746
 Spizella breweri, 746
 Sterna hirundo, 629-633
 Sturnus vulgaris, 746
 Zenaida macroura, 746
Presbyornis pervetus, 587-601
 Prevett, J. P., see Alison, R. M., and —
Progne subis, 231-244, 842
Psaltiriparus minimus, 574-584
Psilorkhinus morio, 55, 57
Psittirostra cantans, 774-792
 psittacea, 774-792
 Ptarmigan, Willow, 657
 Pterylography, *Clangula hyemalis*, 190-192
 Puffin, Tufted, 273
Pygoscelis adeliae, 749-759
 papua, 749-759
 Quail, Common, 135-141
 Mountain, 543-553

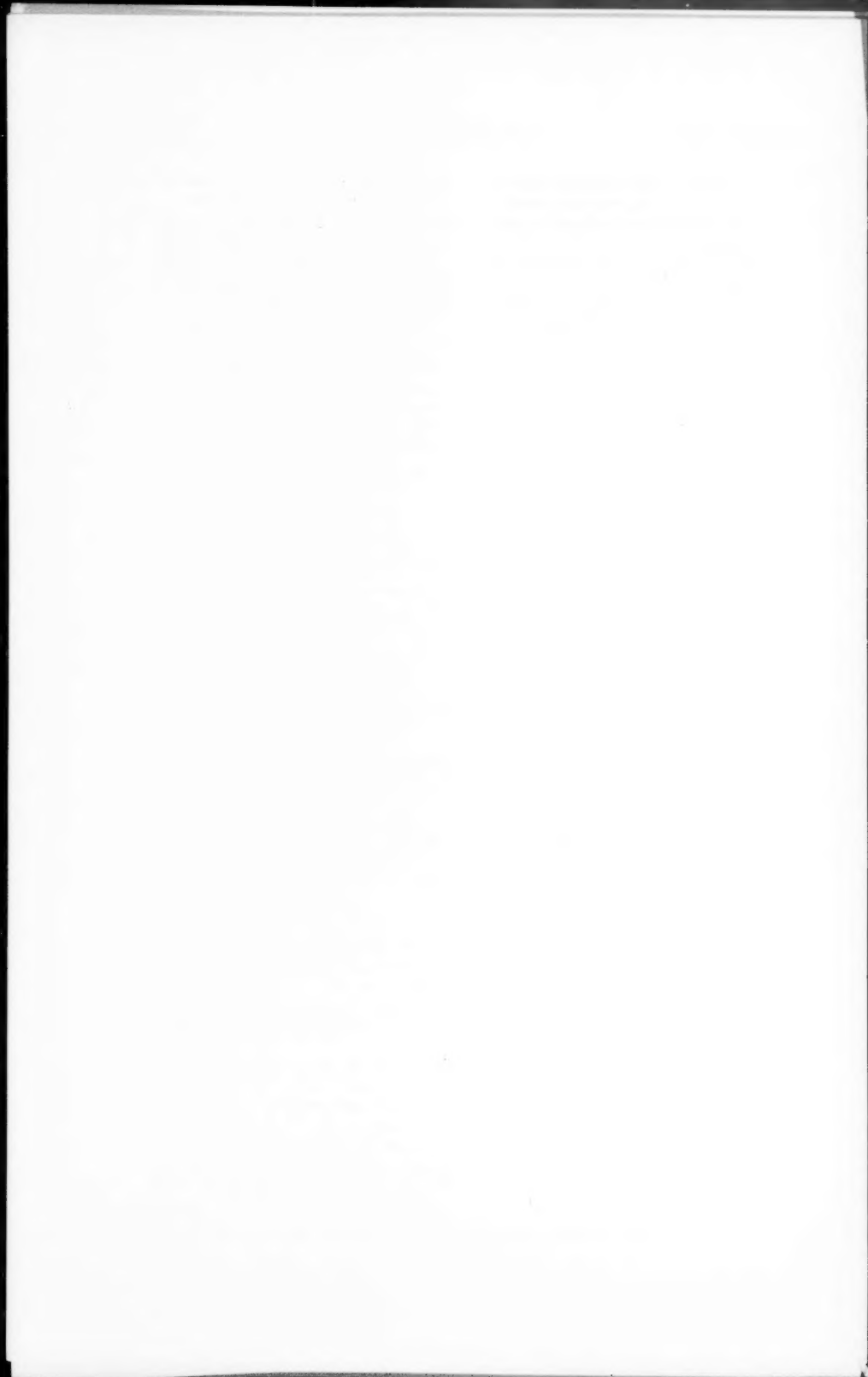
- Quiscalus quiscula*, 360, 361, 364, 460, 640-642
- Radiation, nesting success of birds exposed to gamma radiation, 627-629
- Raikow, Robert J. Pelvic appendage myology of the Hawaiian Honeycreepers (Drepanididae), 774-792
- Ralph, C. John, and L. Richard Mewaldt, Homing success in wintering sparrows, 1-14
- Raven, Common, 273, 460, 832
- White-necked, 57
- Redhead, 831
- Redstart, American, 296, 698, 708
- Regulus calendula*, 57, 460
- Reiger, J. F., American sportsmen and the origin of conservation (rev.), 864-865
- Relationships of, Charadriiformes, 587-601
- Falconidae, 633-636
- Neodrepanis* sp., 169-170
- Nephelornis oneilli*, 424, 426-427
- Philepitta castanea*, 169-170
- Phoenicopteriformes, 587-601
- Presbyornis pervetus*, 587-601
- Rynchopidae, 170-174
- Spiziapteryx circumcinctus*, 633-636
- Renesting by, *Agelaius phoeniceus*, 348-349
- Dendrocygna autumnalis*, 535-542
- Rhodothraupis celaeno*, 57
- Ricklefs, Robert E., The chemical composition of the ovary, oviduct, and follicles of the Starling, 184-187
- Riparia riparia*, 177-178
- Rissa tridactyla*, 273
- Robin, American, 57, 360, 361, 364, 628, 684-686, 708
- Clay-colored, 57
- Rodgers, Jr., James A., Juvenile Little Blue Herons try to secure food from adult Louisiana Herons, 195; Spreading sunbathing by juvenile White-faced Ibis, 375-376
- Rothstein, Stephen I., Cowbird parasitism of the Cedar Waxwing and its evolutionary implications, 498-509; Experiments on defenses Cedar Waxwings use against cowbird parasitism, 675-691
- Russell, Keith B., Migrant Golden-winged Warbler with a bivalent repertoire, 178-179
- Rynchops niger*, 170-174
- Sadler, Douglas A. R., and W. J. Maher, Notes on the Long-billed Curlew in Saskatchewan, 382-384
- Saiff, Edward, Anatomy of the middle ear region of the avian skull: Sphenisciformes, 749-759
- Samson, Fred B., Territory, breeding density, and fall departure in Cassin's Finch, 477-497
- Sandpiper, Spotted, 56
- Sapsucker, Yellow-bellied, 56
- Saskatchewan, 382-384
- Sayornis phoebe*, 57, 361, 364, 708
- saya*, 843-846
- Scardafella inca*, 746
- Scaup, Greater, 831
- Lesser, 831
- Schizoeaca fuliginosa*, 426
- Schlegel, H., and A. H. Verster de Wulverhorst, *Traité de fauconnerie* (rev.), 202-203
- Schmidt-Koenig, Klaus, Direction of the preceding release and initial orientation of homing pigeons, 669-674
- Schodde, Richard, review by, 203-206
- Schreiber, Ralph W., and John M. Lawrence, Organic material and calories in Laughing Gull eggs, 46-52
- Schulberg, Bud, Swan watch (rev.), 664
- Sears, Harold F., Lynn J. Moseley, and Helmut C. Mueller, Behavioral evidence on skimmers' evolutionary relationships, 170-174
- Seiurus aurocapillus*, 296, 361, 362, 364, 628, 695, 708
- motacilla*, 708
- Selander, Robert K., recipient of Elliott Coues Award, 162
- Selasphorus platycercus*, 574, 582
- Selenidera spectabilis*, 381-382
- Senegal, 32
- Servheen, Christopher, Bald Eagles soaring into opaque cloud, 387

- Setophaga ruticilla*, 296, 698, 708
 Sex ratio of, *Carpodacus cassinii*, 481-482, 490-491
Falco sparverius, 740-748
 Short, Lester L., *Aimophila strigiceps* new to Paraguay, 189-190; review by, 403-404; In Memoriam: Charles Vaurie, 620-625
 Shortt, Angus H., see Hatch, David R. M., and —
 Shoveler, Northern, 831
Sialia mexicana, 746
sialis, 361, 364, 708
 Siegfried, W. Roy, Social organization in Ruddy and Maccoa Ducks, 560-570
 Sierra Leone, 29-31, 32, 34
 Simpson, George Gaylord, Penguins. Past and present, here and there (rev.), 869-870
Sitta canadensis, 708
carolinensis, 296, 361, 362, 364, 708
 Skimmer, Black, 170-174
 Slack, R. Douglas, Nest guarding behavior by male Gray Catbirds, 292-300
 Smiley, Daniel, and James Stapleton, First breeding record of Bewick's Wren in New York State, 183-184
 Smith, Susan M., Ecological aspects of dominance hierarchies in Black-capped Chickadees, 95-107
 Smithe, Frank B., Naturalist's color guide: Part I, the color guide; Part II, the color guide supplement (rev.), 404-406
 Snipe, Common, 379-381
 Social system of, *Charadrius montanus*, 166-167
Oxyura jamaicensis, 560-570
O. maccoa, 560-570
 Solitaire, Rufous-throated, 39-45
Somateria mollissima, 273
spectabilis, 273
 Song, see Vocalizations
 Sora, 282
 South Carolina, 113
 South Dakota, 108
 Southern, William E., Migrational orientation in Ring-billed Gull chicks, 78-85
 Sparrow, Black-chinned, 226
 Brewer's, 543-553, 746
 Chipping, 574-584, 708
 Field, 296, 361, 364, 708
 Fox, 543-553
 Golden-crowned, 1-14
 House, 241, 296, 361, 364, 746, 837
 Lincoln's, 57
 Olive, 57
 Savannah, 282
 Song, 296, 298, 360, 361, 364
 Stripe-capped, 189-190
 Tree, 644
 White-crowned, 1-14, 389-390
 White-throated, 457
Speotyto cunicularia, 510-516, 603, 606, 609-610
 Sphenisciformes, anatomy of middle ear region, 749-759
Spheniscus demersus, 749-759
humboldtii, 749-759
mendiculus, 749-759
Sphyrapicus varius, 56
Spinus tristis, 296
Spiza americana, 108-115
Spizella arborea, 644
atrogularis, 266
breweri, 543-553, 746
passerina, 574-584, 708
pusilla, 296, 361, 364, 708
Spizapteryx circumcinctus, 633-636
 Springer, Paul F., see Avery, Michael, et al.
 Sprunt, Jr., Alexander, Memorial, 130-134
 Stapleton, James, see Smiley, Daniel, and —
 Starling, 184-187, 360, 361, 364, 746
 Steadman, David W., An addition to two Florida Pleistocene avifaunas, 645-646
Steganopus tricolor, 656-657
Stelgidopteryx ruficollis, 57
 Stephan, B., Urvogel, Archaeopterygiformes (rev.), 660
 Sterling, Kier Brooks (Advisory Ed.), Natural sciences in America (rev.), 860-861
Sterna albifrons, 760-773
fuscata, 179-183, 371-374
hirundo, 171, 434, 437-441, 629-633, 636-640
paradisaea, 636-640

- Stewart, Robert E., Breeding birds of North Dakota (rev.), 861-862
- Stokes, Allen W. (ed.), Territory (rev.), 201-202
- Stonehouse, B. (ed.), The biology of penguins (rev.), 663
- Storer, Tracy Irwin, obituary of, 212
- Stork, Wood, 469-471, 473
- Stresemann, Erwin, Ornithology from Aristotle to the present (rev.), 406-407
- Strix varia*, 603, 606, 609-610
- Sturnella magna*, 708
- Sturnus vulgaris*, 184-187, 360, 361, 364, 746
- Sudan, 32
- Surinam, 379-381
- Swallow, Bank, 177-178
- Barn, 177-178
- Cliff, 66-77, 177-178
- Rough-winged, 57
- Tree, 177-178
- Violet-green, 836-837
- Swan, Trumpeter, 831
- Whistling, 831
- Swift, Chimney, 708
- Synallaxis gularis*, 426
- Syringeal anatomy, 324-332
- Syrinx function, 332-341
- Systematics, see Taxonomy
- Tachycineta thalassina*, 836-837
- Tallman, Dan A., see Lowery, Jr., George H., and —
- Tanager, Emerald, 381
- Scarlet, 361, 364, 695, 708
- Speckled, 381
- Summer, 57
- Western, 57
- Tangara chrysophrys*, 381
- florida*, 381
- Tangavius aeneus*, 57
- Taxonomy and paleontology, recent literature on, 20A, 37B-38B, 24C, 39D
- Taxonomy of, *Hypochera lorenzi*, 35-36
- Petrochelidon pyrrhonota*, 66-77
- Sayornis saya*, 843-846
- Sterna albifrons*, 768-769
- Vidua funerea*, 33-36
- Teal, Blue-winged, 646-650, 831
- Cinnamon, 831
- Green-winged, 273, 831
- Temperature regulation, *Auriparus flaviceps*, 255-259
- Otus asio*, 614-619
- Tennessee, 110, 836
- Tern, Arctic, 636-640
- Caspian, 434, 437-438
- Common, 171, 434, 437-441, 629-633, 636-640
- Gull-billed, 171
- Least, 760-773
- Sooty, 179-183, 371-374
- Territory of, *Agelaius phoeniceus*, 344
- Aphelocoma coerulescens*, 443-447
- Carpodacus cassinii*, 485-489
- Dryocopus pileatus*, 16, 18-19, 21-22
- Parus atricapillus*, 99-105
- P. gambeli*, 574-575
- P. inornatus*, 574-575
- Psaltiriparus minimus*, 574-575
- Spizella passerina*, 574-575
- Vireo solitarius*, 574-575
- Texas, 76, 109, 113, 116-125, 225, 376-379, 535-542, 740-748, 842
- Theroff, Ed, see Howell, David and —
- Thomson, A. Landsborough, obituary of Sir Julian Sorrell Huxley, 211-212
- Thrasher, Brown, 296, 361, 364, 460, 684-686
- Thrush, Hermit, 57, 628, 708
- Swainson's, 296, 361, 364
- Wood, 361, 364, 699, 708
- Thryomanes bewickii*, 183-184
- Thryothorus ludovicianus*, 296
- maculipectus*, 57, 58
- Titmouse, Black-crested, 57
- Plain, 574-584
- Tufted, 296, 361, 364, 708
- Togo, 32
- Toucanet, Yellow-eared, 381-382
- Towhee, Green-tailed, 543-553
- Rufous-sided, 183, 360, 361, 364, 694, 708
- Toxostoma rufum*, 296, 361, 364, 460, 684-686
- Trauger, David L., Plumage aberrancy in Blue-winged Teal, 646-650
- Trimble, Steve, Non-game birds of the West/An annotated bibliography (rev.), 209

- Troglodytes aedon*, 57, 296, 297, 360, 361, 698, 708
Trogon elegans, 56
 Trogon, Elegant, 56
 Tucker, Vance A., review by, 848-854
 Turbott, E. G. (ed.), Buller's birds of New Zealand (rev.), 198-199
Turdus grayi, 57
 migratorius, 57, 360, 361, 364, 628, 684-686, 708
 Turkey, Common, 56
 Tuttle, Merlin D., see Jenkinson, Marion Anne, and —
 Tyrannulet, Northern Beardless, 57
Tyrannus melancholicus, 57
 tyrannus, 361, 364, 684-686
 verticalis, 684-686
- Uganda, 32
Uria aalge, 273
 lomvia, 273
 Utah, 69-77, 220, 223-225, 227, 388-389, 477-497
- Vanden Berge, James C., *M. iliobialis medialis* and a review of the *M. iliobialis* complex in flamingos, 429-433
 Variation in, *Petrochelidon pyrrhonota*, 66-77
 Sayornis saya, 843-846
 Vaurie, Charles, Memorial, 620-625
 Veery, 708
 Verdin, 245-262, 746
Vermivora celata, 57, 226
 chrysoptera, 178-179, 708
 pinus, 361, 364
 ruficapilla, 57, 219-230
 virginiae, 219-230
 Vermont, 108
Vestiaria coccinea, 774-792
Vidua chalybeata, 25, 37
 funerea, 27-37
Vireo griseus, 57
 flavifrons, 57, 708
 flavoviridis, 57, 61
 olivaceus, 296, 361, 364, 628, 708
 solitarius, 57, 226, 574-584
 Vireo, Red-eyed, 296, 361, 364, 628, 708
 Solitary, 57, 226, 574-584
 White-eyed, 57
 Yellow-green, 57, 61
 Yellow-throated, 57, 708
 Vocalizations (see also Drumming), *Anas platyrhynchos*, 334-337
Coturnix coturnix, 139-140
Dryocopus pileatus, 20-23
Lagonosticta rara, 31
L. rubricata, 29-31
L. rufopicta, 26-31
Parus hudsonicus, 451-463
Rynchops niger, 172
Sterna albifrons, 760-773
Vermivora chrysoptera, 178-179
Vidua funerea, 27-32
 Vocal mimicry, 25-38
 Vulture, Black, 56
 Turkey, 56, 708
- Walker, L. W., The book of owls (rev.), 658-659
 Warbler, Bay-breasted, 708
 Black-and-white, 57, 361, 362, 364, 708
 Blackburnian, 708
 Blackpoll, 708
 Black-throated Blue, 296, 708
 Black-throated Gray, 574
 Black-throated Green, 57, 708
 Blue-winged, 361, 364
 Canada, 296, 698, 708
 Cape May, 167-169
 Cerulean, 708
 Chestnut-sided, 296, 361, 364, 381, 461, 698, 708
 Golden-winged, 178-179, 708
 Hooded, 698, 708
 Magnolia, 461
 Mourning, 296
 Nashville, 57, 219-230
 Orange-crowned, 57, 226
 Virginia's, 219-230
 Wilson's, 57
 Worm-eating, 708
 Yellow, 296, 360, 361, 364, 543-553
 Yellow-rumped, 57
 Yellow-throated, 57, 708
 Washington, 67, 68, 76, 195-196, 387
 Washington, D. C., 110, 114
 Waterthrush, Louisiana, 708
 Watson, George E., Proceedings of the ninety-third stated meeting of the

- American Ornithologists' Union, 142-163; review by, 401-402; Birds of the Antarctic and Subantarctic (rev.), 866-868
- Waxwing, Cedar, 57, 296, 498-509, 675-691, 708
- Weights and measurements of, *Aphelocoma coerulescens*, 447-448
- Capella gallinago*, 380
- Chamaepetes goudotii*, 194
- Empidonax difficilis*, 655-656
- Myadestes genibarbis*, 39
- Nephelornis oneilli**, 424
- Petrochelidon pyrrhonota*, 73-75
- Sayornis saya*, 844-845
- Sterna albifrons*, 768
- Sturnus vulgaris*, 185
- Wellnhofer, P., Das fünfte Skelettexemplar von *Archaeopteryx* (rev.), 660
- Wentling, Robert, see Lumsden, Harry G., and —
- Weske, John S., Western Flycatcher in Oklahoma, 655-656
- Wessels, Tom, Connecticut House Sparrows nesting in December, 837
- West Indies, 1DD-19DD
- West, Steve, Observations on the Yellow-eared Toucanet, 381-382
- West Virginia, 108, 112
- Wiens, John A., reviews by, 396-400, 865-866
- Wiese, Jochen H., Courtship and pair formation in the Great Egret, 708-724
- Wigeon, American, 643-644, 831
- Willard, David E., Herons catch two fish in one strike, 391
- Williams, George C., Sex and evolution (rev.), 865-866
- Williams, Timothy C., Thomas J. Klonowski, and Philip Berkeley, Angle of Canada Goose V flight formation measured by radar, 554-559
- Willis, Edwin O., A possible reason for mimicry of a bird-eating hawk by an insect-eating kite, 841-842
- Wilson, Alexander, American bird engravings (rev.), 661
- Wilson, Kay R., see Gehlbach, Frederick R., et al.
- Wilsonia canadensis*, 296, 698, 708
- citrina*, 698, 708
- pusilla*, 57
- Wisconsin, 108, 111, 627-629
- Wolters, Hans E., Die Vogelarten der Erde (rev.), 868-869
- Woodcock, American, 361, 364, 374-375
- Woodpecker, Bronze-winged, 56
- Downy, 296, 361, 364, 708
- Golden-fronted, 56
- Hairy, 361, 362, 364, 708, 836
- Ladder-backed, 56
- Lineated, 56
- Pileated, 15-24, 708
- Red-bellied, 361, 362, 364
- Woodstar, Bahama, 837-838
- Woolfenden, Glen E., A case of bigamy in the Florida Scrub Jay, 443-450
- Worth, C. Brooke, Body-bobbing woodcocks, 374-375
- Wren, Bewick's, 183-184
- Carolina, 296
- House, 57, 296, 297, 360, 361, 698, 708
- Spot-breasted, 57, 58
- Wright, C. A. (ed.), Biochemical and immunological taxonomy of animals (rev.), 199-200
- Wyoming, 71, 74-76, 223
- Yellowthroat, Common, 282, 708
- Yesner, David R., Aleutian Island albatrosses: a population history, 263-280
- Youngren, Orlan M., see Lockner, F. Russell, and —
- Yukon, 67, 69, 76
- Zaire, 31-34
- Zenaida asiatica*, 56, 61
- macroura*, 360, 361, 364, 543-553, 574, 582, 708, 746
- Zimmerman, Dale A., On the status of *Buteo nitidus* in New Mexico, 650-655
- Zimmerman, David R., To save a bird in peril (rev.), 208
- Zonotrichia albicollis*, 457
- atricapilla*, 1-14
- leucophrys*, 1-14, 389-390
- Zottoli, Steven J., Fishing behavior of Common Grackles, 640-642



The Auk

A Quarterly Journal of Ornithology

EDITOR

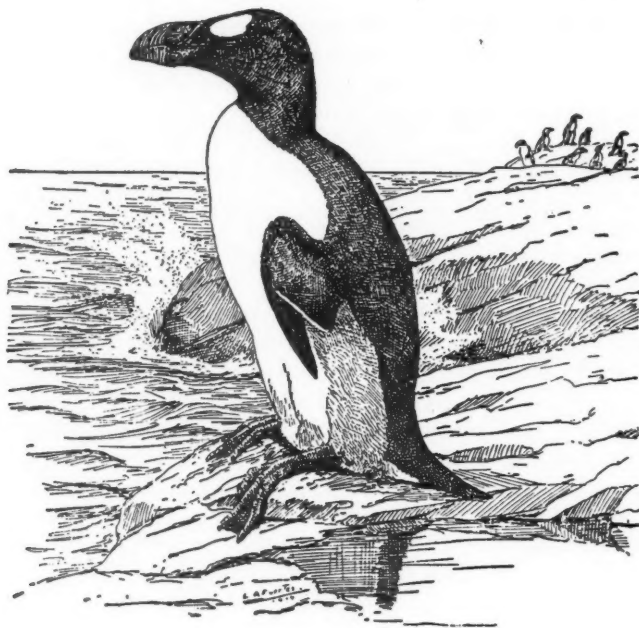
OLIVER L. AUSTIN, JR.

ASSISTANT EDITOR

JUNE B. GABALDON

ASSOCIATE EDITORS

WALTER BOCK, HERBERT W. KALE II, JAMES J. DINSMORE



VOLUME 93

PUBLISHED BY

THE AMERICAN ORNITHOLOGISTS' UNION

1976

DATES OF ISSUES OF "THE AUK"

VOL. 93, No. 1—23 January 1976

VOL. 93, No. 2—19 April 1976

VOL. 93, No. 3—26 July 1976

VOL. 93, No. 4—29 October 1976

CONTENTS OF VOLUME 93

NUMBER 1

HOMING SUCCESS IN WINTERING SPARROWS. <i>C. John Ralph and L. Richard Mewaldt</i>	1
WINTER FORAGING AND ASSOCIATED BEHAVIOR OF PILEATED WOODPECKERS IN GEORGIA AND FLORIDA. <i>Lawrence Kilham</i>	15
SONG MIMICRY AND SPECIES RELATIONSHIPS AMONG THE WEST AFRICAN PALEWINGED INDIGOBIRDS. <i>Robert B. Payne</i>	25
DISTRIBUTION, ECOLOGY, AND BREEDING BIOLOGY OF THE RUFOUS-THROATED SOLITAIRE IN JAMAICA. <i>Alexander Cruz</i>	39
ORGANIC MATERIAL AND CALORIES IN LAUGHING GULL EGGS. <i>Ralph W. Schreiber and John M. Lawrence</i>	46
AVIFAUNA OF THE RÍO CORNA, TAMAULIPAS, MEXICO: NORTH-EASTERN LIMIT OF THE TROPICS. <i>Frederick R. Gehlbach, David O. Dillon, Herschel L. Harrell, Stephen E. Kennedy, and Kay R. Wilson</i>	53
SYSTEMATIC REVIEW, INTERGRADATION, AND CLINAL VARIATION IN CLIFF SWALLOWS. <i>William H. Behle</i>	66
MIGRATIONAL ORIENTATION IN RING-BILLED GULL CHICKS. <i>William E. Southern</i>	78
FEEDING BEHAVIOR OF NORTH AMERICAN HERONS. <i>James A. Kushlan</i>	86
ECOLOGICAL ASPECTS OF DOMINANCE HIERARCHIES IN BLACK-CAPPED CHICKADEES. <i>Susan M. Smith</i>	95
CHANGES IN THE BREEDING RANGES OF TWO GRASSLAND BIRDS. <i>Robert J. Hurley and Edwin C. Franks</i>	108
COMPARATIVE MOBBING BEHAVIOR OF SCRUB AND MEXICAN JAYS. <i>Jack F. Cully, Jr., and J. David Ligon</i>	116
BIRD COLLECTIONS IN THE UNITED STATES AND CANADA: ADDENDA AND CORRIGENDA. <i>Mary H. Clench, Richard C. Banks, and Jon C. Barlow</i>	126
IN MEMORIAM: ALEXANDER SPRUNT, JR. <i>Carl W. Buchheister</i>	130
NESTING AND PARENTAL BEHAVIOR IN DOMESTIC COMMON QUAIL. <i>F. Scott Orcutt, Jr., and Adrienne B. Orcutt</i>	135
PROCEEDINGS OF THE NINETY-THIRD STATED MEETING OF THE AMERICAN ORNITHOLOGISTS' UNION. <i>George E. Watson, Secretary</i>	142
GENERAL NOTES	
Population growth in the Cattle Egret. <i>Carl E. Bock and Larry W. Lephien</i>	164
Food fluctuations and multiple clutches in the Mountain Plover. <i>Walter D. Gaul</i>	166

Cape May Warblers in Middle America. <i>C. Russell Mason</i>	167
Morphology of the bony stapes in <i>Philepitta</i> and <i>Neodrepanis</i> : New evidence for suboscine affinities. <i>Alan Feduccia</i>	169
Behavioral evidence on skimmers' evolutionary relationships. <i>Harold F. Sears, Lynn J. Moseley, and Helmut C. Mueller</i>	170
The effects of water restriction on renal mucoid materials in <i>Columba livia</i> . <i>F. M. Anne McNabb and Roger A. McNabb</i>	175
Band-tailed Gull photographed in Florida. <i>Clark S. Olson</i>	176
Absence of "individual distance" in three swallow species. <i>W. Roger Meservey and George F. Kraus</i>	177
Migrant Golden-winged Warbler with a bivalent repertoire. <i>Keith B. Russell</i>	178
Growth and fledging age of Sooty Tern chicks. <i>William Y. Brown</i>	179
First breeding record of Bewick's Wren in New York State. <i>Daniel Smiley and James Stapleton</i>	183
The chemical composition of the ovary, oviduct, and follicles of the Starling. <i>Robert E. Ricklefs</i>	184
<i>Accipiter polioaster</i> from Peru, and remarks on two collecting localities named "Sarayacu." <i>Marion Anne Jenkinson and Merlin D. Tuttle</i>	187
<i>Aimophila strigiceps</i> new to Paraguay. <i>Lester L. Short</i>	189
Variation in Oldsquaw rectrix numbers. <i>Steven R. Peterson</i>	190
Reevaluation of "activity clustering" by male grouse. <i>Gordon W. Gullion</i>	192
Notes on the Sickle-winged Guan in Colombia. <i>Terry B. Johnson and Steven Hilty</i>	194
Juvenile Little Blue Herons try to secure food from adult Louisiana Herons. <i>James A. Rodgers, Jr.</i>	195
A Washington record of the Boreal Owl. <i>Richard E. Johnson and George E. Hudson</i>	195
REVIEWS. <i>Edited by Walter Bock</i>	197
OBITUARIES	210
ERRATA AND ADDENDA	213
NOTES AND NEWS	213

NUMBER 2

BREEDING DISTRIBUTION OF NASHVILLE AND VIRGINIA'S WARBLERS. <i>Ned K. Johnson</i>	219
SOME EFFECTS OF WEATHER ON PURPLE MARTIN ACTIVITY. <i>J. Campbell Finlay</i>	231
BEHAVIORAL ADAPTATIONS OF THE VERDIN TO THE DESERT. <i>George T. Austin</i>	245
ALEUTIAN ISLAND ALBATROSSES: A POPULATION HISTORY. <i>David R. Yesner</i>	263

THE EFFECTS OF A TALL TOWER ON NOCTURNAL BIRD MIGRATION—A PORTABLE CEILOMETER STUDY. <i>Michael Avery, Paul F. Springer, and J. Frank Cassel</i>	281
NEST GUARDING BEHAVIOR BY MALE GRAY CATBIRDS. <i>R. Douglas Slack</i>	292
EXPLOITATION OF FLUCTUATING FOOD RESOURCES BY WESTERN GULLS. <i>George L. Hunt, Jr. and Molly W. Hunt</i>	301
DAILY AND SEASONAL ACTIVITY PATTERNS IN BREEDING LAUGHING GULLS. <i>Joanna Burger</i>	308
FUNCTIONAL SYRINGEAL ANATOMY OF THE MALLARD. I. <i>IN SITU</i> ELECTROMYOGRAMS DURING ESB ELICITED CALLING. <i>F. Russell Lockner and Orlan M. Youngren</i>	324
REPRODUCTIVE RATE AND TEMPORAL SPACING OF NESTING OF RED- WINGED BLACKBIRDS IN UPLAND HABITAT. <i>Richard A. Dolbeer</i>	343
AVIAN DISTRIBUTION PATTERNS IN FOREST ISLANDS OF DIFFERENT SIZES IN CENTRAL NEW JERSEY. <i>Anne E. Galli, Charles F. Leck, and Richard T. T. Forman</i>	356
IN MEMORIAM: GEORGE ELFORD HUDSON. <i>James R. King</i>	365
GENERAL NOTES	
Egg specific gravity and incubation in the Sooty Tern and Brown Noddy. <i>William Y. Brown</i>	371
Body-bobbing woodcocks. <i>C. Brooke Worth</i>	374
Spread-wing sunbathing by juvenile White-faced Ibis. <i>James A. Rodgers, Jr.</i>	375
Plain Chachalaca food habits in south Texas. <i>Wayne R. Marion</i>	376
The Common Snipe in Surinam. <i>F. Haverschmidt</i>	379
Observations on the Yellow-eared Toucanet. <i>Steve West</i>	381
Notes on the Long-billed Curlew in Saskatchewan. <i>Douglas A. R. Sadler and W. J. Maher</i>	382
Countershading on the feet and legs of the Common Loon. <i>Jerome A. Jackson</i>	384
Bald Eagles soaring into opaque cloud. <i>Christopher Servheen</i>	387
On flight pursuits in wintering Dark-eyed Juncos. <i>Martha Hatch Balph and David F. Balph</i>	388
Additional records of Mountain White-crowned Sparrows parasitized by the Brown-headed Cowbird. <i>J. R. King, S. A. Mahoney, C. S. Maxwell, and L. R. Mewaldt</i>	389
Golden Eagle preys on Osprey. <i>A. Richard Lafontaine and Janet H. Fowler</i>	390
Hérons catch two fish in one strike. <i>David E. Willard</i>	391
Possible intermediate Ross' Goose and Snow Goose in Manitoba. <i>David R. M. Hatch and Angus H. Shortt</i>	391
REVIEWS. <i>Edited by Walter Bock</i>	393
NOTES AND NEWS	409

NUMBER 3

A NEW GENUS AND SPECIES OF NINE-PRIMARYED OSCINE OF UNCERTAIN AFFINITIES FROM PERU. <i>George H. Lowery, Jr. and Dan A. Tallman</i>	415
<i>M. ILIOTIBIALIS MEDIALIS</i> AND A REVIEW OF THE <i>M. ILIOTIBIALIS</i> COMPLEX IN FLAMINGOS. <i>James C. Vanden Berge</i>	429
ABNORMAL CHICKS AND PCB RESIDUE LEVELS IN EGGS OF COLONIAL BIRDS ON THE LOWER GREAT LAKES (1971-73). <i>Michael Gilbertson, Ralph D. Morris, and Roger A. Hunter</i>	434
A CASE OF BIGAMY IN THE FLORIDA SCRUB JAY. <i>Glen E. Woolfenden</i>	443
VOCALIZATIONS OF THE BOREAL CHICKADEE. <i>Margaret A. McLaren</i>	451
WADING BIRD PREDATION IN A SEASONALLY FLUCTUATING POND. <i>James A. Kushlan</i>	464
TERRITORY, BREEDING DENSITY, AND FALL DEPARTURE IN CASSIN'S FINCH. <i>Fred B. Samson</i>	477
COWBIRD PARASITISM OF THE CEDAR WAXWING AND ITS EVOLUTIONARY IMPLICATIONS. <i>Stephen I. Rothstein</i>	498
BURROWING OWLS WINTERING IN THE OKLAHOMA PANHANDLE. <i>Kenneth O. Butts</i>	510
NESTING MORTALITY IN THE RED-WINGED BLACKBIRD. <i>Donald F. Caccamise</i>	517
RENESTING BY THE BLACK-BELLED WHISTLING DUCK. <i>Don Delnicki and Eric G. Bolen</i>	535
AVIAN POPULATIONS IN HERBICIDE TREATED BRUSH FIELDS. <i>Donald L. Beaver</i>	543
ANGLE OF CANADA GOOSE V FLIGHT FORMATION MEASURED BY RADAR. <i>Timothy C. Williams, Thomas J. Klonowski, and Philip Berkeley</i>	554
SOCIAL ORGANIZATION IN RUDDY AND MACCOA DUCKS. <i>W. Roy Siegfried</i>	560
BREEDING BIRD USE OF A PINYON-JUNIPER-PONDEROSA PINE ECOTONE. <i>William F. Laudenslayer, Jr. and Russell P. Balda</i>	571
OSTEOLOGICAL EVIDENCE FOR SHOREBIRD AFFINITIES OF THE FLAMINGOS. <i>Alan Feduccia</i>	587
GEOGRAPHIC VARIATION IN THE CLUTCH SIZES OF SEVEN OWL SPECIES. <i>Gale A. Murray</i>	602
THERMAL ADAPTIVENESS OF PLUMAGE COLOR IN SCREECH OWLS. <i>James A. Mosher and Charles J. Henny</i>	614
IN MEMORIAM: CHARLES VAURIE. <i>Lester L. Short</i>	620
GENERAL NOTES	
Brown Noddy incubation shifts. <i>William Y. Brown</i>	626

Avian nesting success under gamma radiation exposure. <i>Richard R. Buech</i>	627
Nocturnal predation by a Black-crowned Night Heron at a Common Tern colony. <i>Rodger A. Hunter and Ralph D. Morris</i>	629
The affinities of the falconid genus <i>Spizapteryx</i> . <i>Storrs L. Olson</i>	633
California Condors soaring into opaque clouds. <i>John C. Borneman</i>	636
Feeding segregation in the Arctic and Common Terns in southern Finland. <i>Risto Lemmetyinen</i>	636
Fishing behavior of Common Grackles. <i>Steven J. Zottoli</i>	640
Occurrences of duck hybrids at James Bay. <i>R. M. Alison and J. P. Prevett</i>	643
An unusual foraging behavior of Tree Sparrows. <i>Peter Goldman</i>	644
Scissor-tailed Flycatcher breeding in southwestern Indiana. <i>David Howell and Ed Theroff</i>	644
An addition to two Florida Pleistocene avifaunas. <i>David W. Steadman</i>	645
Plumage aberrancy in Blue-winged Teal. <i>David L. Trauger</i>	646
On the Status of <i>Buteo nitidus</i> in New Mexico. <i>Dale A. Zimmerman</i>	650
Western Flycatcher in Oklahoma. <i>John S. Weske</i>	655
First breeding records of Wilson's Phalarope for James Bay, Ontario. <i>R. I. G. Morrison and T. H. Manning</i>	656
Female ptarmigan reoccupying nest site. <i>R. M. Alison</i>	657
REVIEWS. <i>Edited by Walter Bock</i>	658
OBITUARY	665
NOTES AND NEWS	666

NUMBER 4

DIRECTION OF THE PRECEDING RELEASE AND INITIAL ORIENTATION OF HOMING PIGEONS. <i>Klaus Schmidt-Koenig</i>	669
EXPERIMENTS ON DEFENSES CEDAR WAXWINGS USE AGAINST COW-BIRD PARASITISM. <i>Stephen I. Rothstein</i>	675
EFFECTS OF A LOW-PERSISTENCE INSECTICIDE ON FOREST BIRD POPULATIONS. <i>Jonathan D. Moulding</i>	692
COURTSHIP AND PAIR FORMATION IN THE GREAT EGRET. <i>Jochen H. Wiese</i>	709
HOUSE FINCH PIGMENTATION: CAROTENOID METABOLISM AND THE EFFECT OF DIET. <i>Alan H. Brush and Dennis M. Power</i>	725
AMERICAN KESTREL SEX RATIOS AND HABITAT SEPARATION. <i>G. Scott Mills</i>	740
ANATOMY OF THE MIDDLE EAR REGION OF THE AVIAN SKULL: SPHENISCIFORMES. <i>Edward Saijff</i>	749
VOCAL DIFFERENCES BETWEEN AMERICAN LEAST TERNS AND THE EUROPEAN LITTLE TERN. <i>Barbara W. Massey</i>	760
PELVIC APPENDAGE MYOLOGY OF THE HAWAIIAN HONEYCREEPERS (DREPANIDIDAE). <i>Robert J. Raikow</i>	774

COMPARATIVE DISPLAYS OF YEARLING AND ADULT MALE WOOD DUCKS. <i>Carl E. Korschgen and Leigh H. Fredrickson</i>	793
SPRING DRUMMING PATTERNS OF RUFFED GROUSE. <i>Herbert L. Archibald</i>	808
GENERAL NOTES	
A note on the prehistoric avifauna of the Lower Klamath Basin. <i>Donald K. Grayson</i>	830
Common Goldeneyes hatching from cracked eggs. <i>Harry G. Lumsden and Robert Wenting</i>	833
Banded northern Bald Eagles in Florida and other southern states. <i>Sergej Postupalsky</i>	835
Nest site competition between Mountain Chickadees and Violet-green Swallows. <i>Kathleen E. Franzreb</i>	836
Connecticut House Sparrows nesting in December. <i>Tom Wessels</i>	837
Bahama Woodstar in Florida: first specimen for continental North America. <i>Oscar T. Owre</i>	837
Possible cannibalism in Swainson's Hawk. <i>Wayne R. Pils</i>	838
First record of Smith's Longspur in New York. <i>Thomas H. Davis</i>	838
Snowy Owl steals prey from Marsh Hawk. <i>David C. Duffy, Bruce Beehler, and William Haas</i>	839
A possible reason for mimicry of a bird-eating hawk by an insect-eating kite. <i>Edwin O. Willis</i>	841
Use of gravel by Purple Martins. <i>Charles R. Brown</i>	842
Nesting Bald Eagles attack researcher. <i>Teryl G. Grubb</i>	842
The status of <i>Sayornis saya yukonensis</i> Bishop. <i>M. Ralph Browning</i>	843
A definite Colorado breeding record for the Harlequin Duck. <i>Kenneth C. Parkes and Colleen Helgeson Nelson</i>	846
SPECIAL REVIEW: GREENEWALT ON BIRD FLIGHT. <i>Vance A. Tucker</i>	848
REVIEWS. <i>Edited by Walter Bock</i>	855
NOTES AND NEWS	870
THIRTY-THIRD SUPPLEMENT TO THE AMERICAN ORNITHOLOGISTS'	
UNION CHECK-LIST OF NORTH AMERICAN BIRDS	875
INDEX TO VOLUME 93. <i>Compiled by James J. Dinsmore</i>	880

